

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	((("6117770") or ("6395152") or ("20040067640")).PN.	US-PGPUB; USPAT	OR	OFF	2006/05/01 02:57
L2	407609	("438"/\$.ccls. or "257"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 03:01
L3	17391	((438/622) or (438/625) or (438/626) or (438/627) or (438/628) or (438/629) or (438/631) or (438/633) or (438/634) or (438/637) or (438/638) or (438/643) or (438/644) or (438/645) or (438/648) or (438/652) or (438/653) or (438/654) or (438/656) or (438/669) or (438/672) or (438/685) or (438/687) or (438/691) or (438/692) or (438/695) or (438/697) or (438/700)). CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/01 03:02
L4	17391	((438/622) or (438/625) or (438/626) or (438/627) or (438/628) or (438/629) or (438/631) or (438/633) or (438/634) or (438/637) or (438/638) or (438/643) or (438/644) or (438/645) or (438/648) or (438/652) or (438/653) or (438/654) or (438/656) or (438/669) or (438/672) or (438/685) or (438/687) or (438/691) or (438/692) or (438/695) or (438/697) or (438/700)). CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/01 03:02
L5	146	L4 and (electropolish\$3 or (electrolytic adj etch\$3) or (electro adj planariz\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 03:02
L6	38	5 and ((wafer or substrate) same (immers\$3 or submers\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 03:03
L7	27	5 and ((wafer or substrate) same (immers\$3 or submers\$3) same electrolyt\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 03:04

## EAST Search History

S1	13999	((438/622) or (438/625) or (438/626) or (438/627) or (438/628) or (438/629) or (438/631) or (438/633) or (438/634) or (438/637) or (438/638) or (438/643) or (438/644) or (438/645) or (438/648) or (438/652) or (438/653) or (438/654) or (438/656) or (438/669) or (438/672) or (438/685) or (438/687) or (438/691) or (438/692) or (438/695) or (438/697) or (438/700)). CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/01 03:02
S2	88	S1 and (electropolish\$3 or (electrolytic adj etch\$3) or (electro adj planariz\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 03:02
S3	57	S2 and (barrier near2 layer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/02 14:33
S4	8	S3 and ((electropolish\$3 or (electrolytic adj etch\$3) or (electro adj planariz\$5)) near5 (barrier adj layer))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/02 14:55
S5	2	S4 and adhesion	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/02 15:13
S6	1	("6176992").PN.	USPAT; USOCR	OR	OFF	2004/09/02 15:13
S7	7312	("0000650").PN. or ((438/678) or (438/679) or (438/438/627) or (438/653) or (438/656) or (438/643) or (438/648) or (438/685) or (438/686) or (438/633) or (438/687) or (438/637) or (438/638)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/04 01:57
S8	79	((("0000650").PN. or ((438/678) or (438/679) or (438/438/627) or (438/653) or (438/656) or (438/643) or (438/648) or (438/685) or (438/686) or (438/633) or (438/687) or (438/637) or (438/638)).CCLS.) and barrier and electrolyt\$5 and potential	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:04

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S9	73	((("0000650").PN. or ((438/678) or (438/679) or (438/438/627) or (438/653) or (438/656) or (438/643) or (438/648) or (438/685) or (438/686) or (438/633) or (438/687) or (438/637) or (438/638)).CCLS.) and barrier and electrolyt\$5 and potential) and (copper or cu)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:04
S10	4	((("0000650").PN. or ((438/678) or (438/679) or (438/438/627) or (438/653) or (438/656) or (438/643) or (438/648) or (438/685) or (438/686) or (438/633) or (438/687) or (438/637) or (438/638)).CCLS.) and barrier and electrolyt\$5 and potential) and (copper or cu)) and (electrolyt\$5 same (koh or (potassium adj hydroxide) or naoh or (sodium adj hydroxide) or (ammonium adj hydroxide) or (nh adj2 oh) or (tetra adj2 methyl adj ammonium and hydroxide) or tmah))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:20
S11	4	(((((("0000650").PN. or ((438/678) or (438/679) or (438/438/627) or (438/653) or (438/656) or (438/643) or (438/648) or (438/685) or (438/686) or (438/633) or (438/687) or (438/637) or (438/638)).CCLS.) and barrier and electrolyt\$5 and potential) and (copper or cu)) and (electrolyt\$5 same (koh or (potassium adj hydroxide) or naoh or (sodium adj hydroxide) or (ammonium adj hydroxide) or (nh adj2 oh) or (tetra adj2 methyl adj ammonium and hydroxide) or tmah)))) and ph	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:16
S12	8776	damascene	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:17
S13	5486	damascene and copper	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:17
S14	1668	(damascene and copper) and barrier and seed	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:17

## EAST Search History

S15	877	((damascene and copper) and barrier and seed) and adhesion	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:18
S16	687	((damascene and copper) and barrier and seed) and adhesion) and ((expos\$4 same barrier) or ((etch\$4 or remove) same seed))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:19
S17	168	((damascene and copper) and barrier and seed) and adhesion) and ((expos\$4 same barrier) or ((etch\$4 or remove) same seed))) and (electrolyte or electrolyt\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:20
S18	71	((damascene and copper) and barrier and seed) and adhesion) and ((expos\$4 same barrier) or ((etch\$4 or remove) same seed))) and (electrolyte or electrolyt\$3)) and potential	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:20
S19	10	((damascene and copper) and barrier and seed) and adhesion) and ((expos\$4 same barrier) or ((etch\$4 or remove) same seed))) and (electrolyte or electrolyt\$3)) and potential) and (electrolyt\$5 same (koh or (potassium adj hydroxide) or naoh or (sodium adj hydroxide) or (ammonium adj hydroxide) or (nh adj2 oh) or (tetra adj2 methyl adj ammonium and hydroxide) or tmah))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:20
S20	5	((damascene and copper) and barrier and seed) and adhesion) and ((expos\$4 same barrier) or ((etch\$4 or remove) same seed))) and (electrolyte or electrolyt\$3)) and potential) and (electrolyt\$5 same (koh or (potassium adj hydroxide) or naoh or (sodium adj hydroxide) or (ammonium adj hydroxide) or (nh adj2 oh) or (tetra adj2 methyl adj ammonium and hydroxide) or tmah))) and ph	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:22

## EAST Search History

S21	5	(((((((damascene and copper) and barrier and seed) and adhesion) and ((expos\$4 same barrier) or ((etch\$4 or remove) same seed))) and (electrolyte or electrolyt\$3)) and potential) and (electrolyt\$5 same (koh or (potassium adj hydroxide) or naoh or (sodium adj hydroxide) or (ammonium adj hydroxide) or (nh adj2 oh) or (tetra adj2 methyl adj ammonium and hydroxide) or tmah))) not (((((((damascene and copper) and barrier and seed) and adhesion) and ((expos\$4 same barrier) or ((etch\$4 or remove) same seed))) and (electrolyte or electrolyt\$3)) and potential) and (electrolyt\$5 same (koh or (potassium adj hydroxide) or naoh or (sodium adj hydroxide) or (ammonium adj hydroxide) or (nh adj2 oh) or (tetra adj2 methyl adj ammonium and hydroxide) or tmah))) and ph)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/12/04 02:22
S22	2	((("20020074238") or ("20030207558")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/06/04 13:57